

WHAT IS CLAIMED IS:

1. An adhesive transfer device for selectively making a repositionably adherable substrate from a selected substrate, said device comprising:

a core;

a base substrate having an adhesive carrying surface and a release surface opposite said adhesive carrying surface;

a layer of repositionable adhesive provided on the adhesive carrying surface of said base substrate;

a layer of permanent adhesive provided adjacent to said repositionable adhesive layer opposite the base substrate; and

said base substrate being wound about said core such that said release surface faces in a first generally radial direction with respect to said core and said adhesive layers face in a second generally radial direction with respect to said core opposite said first generally radial direction with said release surface removably engaging said permanent adhesive layer;

the nature of said release surface being such that said base substrate can be unwound to separate said release surface and said permanent adhesive layer with both said adhesive layers remaining on said base substrate with said permanent adhesive layer exposed, thereby enabling the selected substrate to thereafter be adhesively bonded to said exposed permanent adhesive layer by engaging the selected substrate with said exposed permanent adhesive layer;

said adhesive layers being provided such that, after the selected substrate has been adhesively bonded to said permanent adhesive layer, said base substrate

and the selected substrate can be moved apart from one another so as to separate said base substrate from said repositionable adhesive layer and leave both said adhesive layers on the selected substrate with said repositionable adhesive layer exposed, thereby allowing the selected substrate to (a) be repositionably adhered to a contact surface by engaging said exposed repositionable adhesive layer with the contact surface and (b) thereafter be removed from the contact surface and repositionably adhesively bonded to another contact surface.

2. An adhesive transfer device according to claim 1, further comprising:

a frame constructed and arranged to be manually handled,

said core being rotatably mounted to said frame such that a user can apply the adhesive layers to the selected substrate from a portion of said base substrate that has been unrolled from said core by (a) engaging the exposed permanent adhesive layer on the unrolled base substrate portion with the selected substrate and adhesively bonding said engaged permanent adhesive layer to the selected substrate, and (b) then moving said frame relative to the selected substrate so as to cause additional portions of said base substrate to unroll from said core whereby the permanent adhesive layer on said additional portions becomes exposed and thereafter engaged with and adhesively bonded to the selected substrate.

3. An adhesive transfer device according to claim 2, further comprising a pressure applying element mounted to said frame, said pressure applying element being constructed and arranged to apply pressure to the portion

of said base substrate that is engaged with the selected substrate so as to ensure that the permanent adhesive layer associated therewith is being adhesively bonded to the selected substrate.

4. An adhesive transfer device according to claim 1, wherein the nature and thickness of said permanent adhesive layer is such that said permanent adhesive layer can be securely adhesively bonded to a selected substrate having a textured surface.

5. An adhesive transfer device according to claim 4, wherein said adhesive layers are bonded directly to one another with no intervening layers therebetween and wherein a weight ratio of the weight of said repositionable adhesive layer to the weight of said permanent adhesive layer is greater than 1:1.

6. An adhesive transfer device according to claim 5, wherein said adhesive layers have a combined density greater than 20 grams per square meter.

7. An adhesive transfer device according to claim 6, wherein said repositionable adhesive is an acrylic microsphere adhesive.

8. An adhesive transfer device according to claim 7, wherein the combined density is greater than 25 grams per square meter.

9. An adhesive transfer device according to claim 8, wherein the combined density is approximately 27 grams per square meter.

10. An adhesive transfer device according to claim 1, wherein said permanent adhesive is an acrylic-based emulsion.

11. An adhesive transfer device according to claim 1, wherein said repositionable adhesive is an acrylic microsphere adhesive.

12. An adhesive transfer device according to claim 1, wherein said first generally radial direction is generally radially inwardly to said core and wherein said second generally radial direction is generally radially outwardly with respect to said core.

13. An adhesive transfer device according to claim 2, wherein said frame comprises a handle portion that facilitates manual handling of said frame.

14. An adhesive transfer device according to claim 1, wherein said core is generally cylindrical.

15. An adhesive transfer device according to claim 12, wherein said core is the only core in said device.

16. An adhesive transfer device according to claim 15, and wherein the aforesaid portion of said base substrate that has been unrolled from said core is a free end portion of said base substrate.

17. An adhesive transfer device to be used in conjunction with an adhesive transfer apparatus comprising a frame and a pair of cooperating structures mounted to the frame for selectively making a repositionably adherable substrate from a selected substrate, said device comprising:

a cartridge body constructed and arranged to be removably mounted to the apparatus frame,

a pair of cores rotatably mounted to said cartridge body;

a base substrate having an adhesive carrying surface and a release surface opposite said adhesive carrying surface;

a layer of repositionable adhesive provided on the adhesive carrying surface of said base substrate;

a layer of permanent adhesive provided adjacent to said repositionable adhesive layer opposite the base substrate;

said base substrate being wound about a first of said cores such that said release surface faces generally in a first radial direction with respect to said first core and said adhesive layers face generally in a second radial direction with respect to said first core opposite said first radial direction with said permanent adhesive layer removably engaging said release surface,

the nature of said release surface being such that a free end portion of said base substrate can be unrolled so as to separate said permanent adhesive layer

from the release surface of said base substrate and leave both of said adhesive layers on the free end portion of said base substrate with said permanent adhesive layer exposed, thereby enabling the base substrate to be fed between the cooperating structures of the apparatus with said permanent adhesive layer exposed;

an adhesive mask substrate wound about a second of said cores, said adhesive mask substrate having a higher affinity for adhesive bonding than said release surface;

said cartridge body being constructed and arranged such that, when said cartridge body is removably mounted to the apparatus frame, the selected substrate can be fed between said cores and into the cooperating structures with the base substrate unrolled from said first core and disposed on one side of the selected substrate and the permanent adhesive layer thereof facing the selected substrate and the adhesive mask unrolled and disposed on the other side of the selected substrate so that the selected substrate, said base substrate, and said mask substrate can be advanced together between said cooperating structures to perform an adhesive transfer process wherein the cooperating structures cooperate to apply pressure to said substrates to adhesively bond a portion of the permanent adhesive layer to the selected substrate and a peripheral portion of said permanent adhesive layer extending around the periphery of the selected substrate to said adhesive mask substrate and then discharge the processed substrates outwardly therefrom,

the nature of said adhesive mask substrate and said adhesive layers being such that, after said substrates have been discharged from the apparatus, said adhesive mask substrate can thereafter be moved away from said base substrate

- and the selected substrate so as to remove the peripheral portions of the permanent adhesive layer and corresponding peripheral portions of said repositionable adhesive layer from said base substrate, thereby leaving the selected substrate on said base substrate with portions of the permanent and repositionable adhesive layers disposed therebetween and substantially no adhesive disposed on said base substrate around the periphery of the selected substrate;

said adhesive layers being provided such that, after the selected substrate has been adhesively bonded to said permanent adhesive layer, said base substrate and the selected substrate can be moved apart from one another so as to separate said base substrate from said repositionable adhesive layer and leave both said adhesive layers on the selected substrate with said repositionable adhesive layer exposed, thereby allowing the selected substrate to (a) be repositionably adhered to a contact surface by engaging said exposed repositionable adhesive layer with the contact surface and (b) thereafter be removed from the contact surface and repositionably adhesively bonded to another contact surface.

18. An adhesive transfer device according to claim 17, wherein said first and second cores are each generally cylindrical.

19. An adhesive transfer device according to claim 17, wherein said first generally radial direction is generally radially inwardly to said first core and wherein said second generally radial direction is generally radially outwardly with respect to said first core.

20. An adhesive transfer device according to claim 17, wherein said cartridge body has a top wall, a bottom wall, and a pair of side walls extending between said top and bottom walls.

21. An adhesive transfer device according to claim 20, wherein said cartridge body has a rear wall extending between said side walls, said rear wall having an opening formed therethrough through which the selected substrate can be fed into the apparatus.

22. An adhesive transfer device according to claim 18, wherein said first and second cores are cardboard.

23. An adhesive transfer device according to claim 17, wherein the nature and thickness of said permanent adhesive layer is such that said permanent adhesive layer can be securely adhesively bonded to a selected substrate having a textured surface.

24. An adhesive transfer device according to claim 23, wherein said adhesive layers are bonded directly to one another with no intervening layers therebetween and wherein a weight ratio of the weight of said repositionable adhesive layer to the weight of said permanent adhesive layer is greater than 1:1.

25. An adhesive transfer device according to claim 24, wherein said adhesive layers have a combined density greater than 20 grams per square meter.



26. An adhesive transfer device according to claim 25, wherein said repositionable adhesive is an acrylic microsphere adhesive.

27. An adhesive transfer device according to claim 26, wherein the combined density is greater than 25 grams per square meter.

28. An adhesive transfer device according to claim 27, wherein the combined density is approximately 27 grams per square meter.

29. An adhesive transfer device according to claim 17, wherein said permanent adhesive is an acrylic-based emulsion.

30. An adhesive transfer device according to claim 17, wherein said repositionable adhesive is an acrylic microsphere adhesive.


31. An adhesive transfer device for selectively making a repositionably adherable substrate from a selected substrate, said device comprising:

a base substrate;

a layer of repositionable adhesive provided on said base substrate;

a layer of permanent adhesive provided adjacent to said repositionable adhesive layer opposite the base substrate; and

a release liner substrate having a release surface, said release liner substrate, said base substrate and said adhesive layers being arranged in



substantially flat parallel relation to define an adhesive transfer sheet with said release surface being removably engaged with said permanent adhesive layer opposite said repositionable adhesive layer and said base substrate so as to cover said permanent adhesive layer;

the nature of said release surface being such that said base substrate and said release liner substrate can be moved apart from one another so as to separate said release surface from said permanent adhesive layer and leave both of said adhesive layers on said base substrate with said permanent adhesive layer exposed, thereby enabling the selected substrate to thereafter be adhesively bonded to said exposed permanent adhesive layer by engaging the selected substrate with said exposed permanent adhesive layer;


said adhesive layers being provided such that, after the selected substrate has been adhesively bonded to said permanent adhesive layer, said base substrate and the selected substrate can be moved apart from one another so as to separate said base substrate from said repositionable adhesive layer and leave both said adhesive layers on the selected substrate with said repositionable adhesive layer exposed, thereby allowing the selected substrate to (a) be repositionably adhered to a contact surface by engaging said exposed repositionable adhesive layer with the contact surface and (b) thereafter be removed from the contact surface and repositionably adhesively bonded to another contact surface;

said adhesive transfer device further comprising an adhesive mask substrate positioned adjacent said release liner substrate opposite said adhesive layers, the nature of said adhesive mask substrate being such that, after the release liner substrate has been moved apart from said base substrate so as to separate

said release surface from said permanent adhesive layer and the selected substrate has been adhesively bonded to said permanent adhesive layer but before the selected substrate has been moved apart from said base substrate so as to separate said base substrate from said repositionable adhesive layer, said adhesive mask substrate can be positioned in covering relation over the selected substrate with a portion of the adhesive substrate mask engaging the selected substrate and a portion of the adhesive substrate mask engaging peripheral portions of the permanent adhesive layer that are exposed around the periphery of the selected substrate so that the peripheral portions of said permanent adhesive layer are bonded to said adhesive substrate mask in such a manner that said adhesive substrate mask can thereafter be moved away from said base substrate and the selected substrate so as to remove the peripheral portions of the permanent adhesive layer and corresponding peripheral portions of said repositionable adhesive layer from said base substrate, thereby leaving the selected substrate on said base substrate with portions of the permanent and repositionable adhesive layers disposed therebetween and substantially no adhesive disposed on said base substrate around the periphery of the selected substrate.

32. An adhesive transfer device according to claim 31, further comprising a plurality of said adhesive transfer sheets bound together.

33. An adhesive transfer device according to claim 32, wherein each of said adhesive transfer sheets is generally rectangular.



34. An adhesive transfer device according to claim 31, wherein the nature and thickness of said permanent adhesive layer is such that said permanent adhesive layer can be securely adhesively bonded to a selected substrate having a textured surface.

35. An adhesive transfer device according to claim 34, wherein said adhesive layers are bonded directly to one another with no intervening layers therebetween and wherein a weight ratio of the weight of said repositionable adhesive layer to the weight of said permanent adhesive layer is greater than 1:1.

36. An adhesive transfer device according to claim 35, wherein said adhesive layers have a combined density greater than 20 grams per square meter.

37. An adhesive transfer device according to claim 36, wherein said repositionable adhesive is an acrylic microsphere adhesive.

38. An adhesive transfer device according to claim 37, wherein the combined density is greater than 25 grams per square meter.

39. An adhesive transfer device according to claim 38, wherein the combined density is approximately 27 grams per square meter.

40. An adhesive transfer device according to claim 31, wherein said permanent adhesive is an acrylic-based emulsion.


41. An adhesive transfer device according to claim 31, wherein said repositionable adhesive is an acrylic microsphere adhesive.

42. An adhesive transfer device for selectively making a repositionably adherable substrate from a selected substrate, said device comprising:

- a base substrate;
- a layer of repositionable adhesive provided on said base substrate;
- a layer of permanent adhesive provided adjacent to said repositionable adhesive layer opposite the base substrate; and


- a release liner substrate having a release surface, said release liner substrate, said base substrate and said adhesive layers being arranged in substantially flat parallel relation to define an adhesive transfer sheet with said release surface being removably engaged with said permanent adhesive layer opposite said repositionable adhesive layer and said base substrate so as to cover said permanent adhesive layer;

the nature of said release surface being such that said base substrate and said release liner substrate can be moved apart from one another so as to separate said release surface from said permanent adhesive layer and leave both of said adhesive layers on said base substrate with said permanent adhesive layer exposed, thereby enabling the selected substrate to thereafter be adhesively bonded to said exposed permanent adhesive layer by engaging the selected substrate with said exposed permanent adhesive layer;



said adhesive layers being provided such that, after the selected substrate has been adhesively bonded to said permanent adhesive layer, said base substrate and the selected substrate can be moved apart from one another so as to separate said base substrate from said repositionable adhesive layer and leave both said adhesive layers on the selected substrate with said repositionable adhesive layer exposed, thereby allowing the selected substrate to (a) be repositionably adhered to a contact surface by engaging said exposed repositionable adhesive layer with the contact surface and (b) thereafter be removed from the contact surface and repositionably adhesively bonded to another contact surface;

said release liner substrate having a stripping surface opposite said release surface with a higher affinity for adhesive bonding than said release surface, the nature of said stripping surface being such that, after the release liner substrate has been moved apart from said base substrate so as to separate said release surface from said permanent adhesive layer and the selected substrate has been adhesively bonded to said permanent adhesive layer but before the selected substrate has been moved apart from said base substrate so as to separate said base substrate from said repositionable adhesive layer, said release liner substrate can be reoriented and positioned in covering relation over the selected substrate with a portion of the stripping surface engaging the selected substrate and a portion of the stripping surface engaging peripheral portions of the permanent adhesive layer that are exposed around the periphery of the selected substrate so that the peripheral portions of said permanent adhesive layer are bonded to said stripping surface in such a manner that said release liner can thereafter be moved away from said base substrate and the selected substrate so as to remove the peripheral portions of the




permanent adhesive layer and corresponding peripheral portions of said repositionable adhesive layer from said base substrate, thereby leaving the selected substrate on said base substrate with portions of the permanent and repositionable adhesive layers disposed therebetween and substantially no adhesive disposed on said base substrate around the periphery of the selected substrate.

43. An adhesive transfer device according to claim 42, further comprising a plurality of said adhesive transfer sheets bound together.

44. An adhesive transfer device according to claim 43, wherein each of said adhesive transfer sheets is generally rectangular.

45. An adhesive transfer device according to claim 42, wherein the nature and thickness of said permanent adhesive layer is such that said permanent adhesive layer can be securely adhesively bonded to a selected substrate having a textured surface.

46. An adhesive transfer device according to claim 45, wherein said adhesive layers are bonded directly to one another with no intervening layers therebetween and wherein a weight ratio of the weight of said repositionable adhesive layer to the weight of said permanent adhesive layer is greater than 1:1.



47. An adhesive transfer device according to claim 46, wherein said adhesive layers have a combined density greater than 20 grams per square meter.

48. An adhesive transfer device according to claim 47, wherein said repositionable adhesive is an acrylic microsphere adhesive.

49. An adhesive transfer device according to claim 48, wherein the combined density is greater than 25 grams per square meter.

50. An adhesive transfer device according to claim 49, wherein the combined density is approximately 27 grams per square meter.

51. An adhesive transfer device according to claim 42, wherein said permanent adhesive is an acrylic-based emulsion.

52. An adhesive transfer device according to claim 42, wherein said repositionable adhesive is an acrylic microsphere adhesive.